Application Software Development Tool Selection Criteria

| CRITERIA | RANK | ОТ | MX | CS |
|----------------------------------------------------------------------------|------|----|----|----|
| DESIGN DEVELOPMENT | | | | |
| Supports object-oriented design and code paradigms | | | | |
| Provides a graphical interface for design development | | | | |
| Pre-defined symbol library is available | | | | |
| Supports user-defined symbols for objects, attributes and relationshipts | | | | |
| DESIGN EDITING | | | | |
| Icon-accessible cut/copy/paste functions are available | | | | |
| Automatic or user-defined sizing of objects and symbols | | | | |
| Provides for grouping / ungrouping of objects | | | | |
| REQUIREMENTS DOCUMENTATION / MAPPING | | | | |
| Supports requirements mapping and tracking | | | | |
| Interfaces to Microsoft Word | | | | |
| Supports attaching requirements to design objects | | | | |
| CODE GENERATION | | | | |
| Provides code generation for all or selection objects | | | | |
| Can generate external definition (e.gh) files | | | | |
| Supports includsion of externally developed code and libraries | | | | |
| Can generate code not containing vendor proprietary libraries or functions | | | | |
| Supports code reuse in a fashion that will reduce maintenance | | | | |
| Code source format can be customized | | | | |
| CODE DEBUG | | 1 | | 1 |
| Provides an interactive debug facility | | | | |
| Suppors module level development and test | | | | |

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| Supports incremental compile/link during development and debug | | | | |
| Supports creation of simulation models (i.e., high fidelity) | | | | |
| REVERSE ENGINEERING | | | | |
| Can reverse engineer code into a design | | | | |
| DOCUMENT GENERATION | | | | |
| Automatically produces doucmentation (e.g. DOD-STD-267) | | | | |
| Provides capability for user definition of document templates | | | | |
| REPORT GENERATION | | | | |
| Generates object model reports | | | | |
| Outputs reports to display, printer or file | | | | |
| Output file formats supported (e.g. postscript, RTF) | | | | |
| Produces data dictionary | | | | |
| HTM format supported | | | | |
| CONFIGURATION MANAGEMENT | | | | |
| Can interface with a CM system for source control | | | | |
| PRODUCT DOCUMENTATION | | | 1 | |
| Provides on-line help facility | | | | |
| Provides adequate documenation (user'gs guide, reference manaual, tutorial) | | | | |
| PLATFORM SUPPORT | | | 1 | |
| Supports multiple platforms with minimal support (NT, HP-UX, SGI) | | | | |
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